

ABSTRACT OF THE DISCLOSURE

An electron gun for a monochrome cathode ray tube to be used in a projection display device includes a cathode for emitting thermal electrons, and first and second electrodes forming a triode portion together with the cathode.

5 A third electrode is adjacent the second electrode. A fourth electrode is adjacent the third electrode to receive a focus voltage. A fifth electrode partially surrounds the fourth electrode while being adjacent the fourth electrode to receive an anode voltage together with the third electrode. The second electrode has a bottom portion with a stepped portion surrounding a hole for 10 guiding the electron beams while being protruded toward the first electrode, and a sidewall portion extended from the periphery of the bottom portion toward the third electrode. The first and the second electrodes are structured to satisfy the following condition: $0.54 \leq T/G \leq 1.50$ wherein T(mm) indicates the thickness of 15 the bottom portion of the second electrode, and G(mm) indicates the distance between the first and the second electrodes.